| Ref<br># | Hits   | Search Query                                                                                                                                                              | DBs                                                               | Default<br>Operator | Plurals | Time Stamp       |
|----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------|---------|------------------|
| S1       | 151882 | (disk) adj (drive)                                                                                                                                                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | OFF     | 2005/12/23 12:48 |
| S2       | 2064   | ((disk) adj (drive)) AND ("duty<br>cycle" "MTBF")                                                                                                                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | OFF     | 2005/12/23 12:50 |
| S3       | 878    | ((disk) adj (drive)) AND ("duty<br>cycle" "MTBF") AND ((delay reduce<br>wait queue buffer) WITH (write<br>read access command))                                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2005/12/23 13:34 |
| S4       | 707    | ((disk) adj (drive)) AND ("duty<br>cycle" "MTBF") AND ((delay reduce<br>wait queue buffer) NEAR4 (write<br>read access command))                                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2005/12/23 13:34 |
| S5       | 553    | ((disk) adj (drive)) AND ("duty<br>cycle" "MTBF") AND ((delay reduce<br>wait queue buffer) NEAR2 (write<br>read access command))                                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2005/12/23 13:35 |
| S6       | 8      | ((disk) adj (drive)) AND (("duty<br>cycle" "MTBF") SAME ((delay reduce<br>wait queue buffer) NEAR2 (write<br>read access command)))                                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR .                | ON      | 2005/12/23 13:47 |
| S7       | . 32   | ((disk) adj (drive)) AND ((exceed pass passes beyond) NEAR2 ("duty cycle" MTBF failure)) AND ((delay reduce wait queue buffer) NEAR2 (write read access command))         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2005/12/23 13:49 |
| \$8      | 79     | ((disk) adj (drive)) AND ((exceed pass passes beyond over at) NEAR2 ("duty cycle" MTBF failure)) AND ((delay reduce wait queue buffer) NEAR2 (write read access command)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON<br>, | 2005/12/23 13:50 |

| S9  | 102  | ((disk) adj (drive)) AND ((exceed pass passes beyond over higher) NEAR2 ("duty cycle" MTBF failure)) AND ((delay reduce wait queue buffer) NEAR2 (write read access command))                                                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/12/23 13:50 |
|-----|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----|----|------------------|
| S10 | 191  | ((disk) adj (drive)) AND ((exceed\$3 pass\$3 beyond over higher) NEAR2 ("duty cycle" MTBF failure)) AND ((delay reduce wait queue buffer) NEAR2 (write read access command))                                                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/12/23 13:51 |
| S11 | 186  | (@ad<"20040121"<br>@rlad<"20040121") AND ((disk) adj<br>(drive)) AND ((exceed\$3 pass\$3<br>beyond over higher) NEAR2 ("duty<br>cycle" MTBF failure)) AND ((delay<br>reduce wait queue buffer) NEAR2<br>(write read access command)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/12/27 14:16 |
| S12 | 3777 | 710/5,6,15,16,17,18,19,36,58,59.<br>ccls.                                                                                                                                                                                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/12/27 14:19 |
| S13 | 2148 | 710/5,6,15,16,17,18,19,36,58,59.<br>ccls. AND (disk)                                                                                                                                                                                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/12/27 14:20 |
| S14 | 29   | 710/5,6,15,16,17,18,19,36,58,59.<br>ccls. AND (disk) AND ("duty cycle"<br>MTBF)                                                                                                                                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/12/27 14:48 |
| S15 | 1001 | 714/47.ccls.                                                                                                                                                                                                                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/12/27 14:49 |
| S16 | 502  | 714/47.ccls. AND (disk)                                                                                                                                                                                                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/12/27 14:49 |

| S17 | 33    | 714/47.ccls. AND (disk) SAME (duty cycle)                                                                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/12/27 14:49 |
|-----|-------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----|----|------------------|
| S18 | 3     | 714/47.ccls. AND (disk) SAME ("duty cycle" MTBF)                                                                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/12/27 14:55 |
| S19 | 28    | 714/47.ccls. AND ("duty cycle"<br>MTBF)                                                                                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/12/27 14:50 |
| S20 | 5     | 714/47.ccls. AND (disk) SAME ("duty cycle" "operation cycle" MTBF "mean time before failure" AFR "annual failure rate") | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/12/27 14:57 |
| S22 | . 34  | 714/47.ccls. AND ("duty cycle" "operation cycle" MTBF "mean time before failure" AFR "annual failure rate")             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/12/29 12:46 |
| S23 | 70050 | ((disk) adj2 (drive)).ab.                                                                                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/12/29 12:47 |
| S24 | 23    | ((disk) adj2 (drive)).ab. AND<br>(reduce reduction lower\$3 maintain)<br>near2 (workload "duty cycle")                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/12/29 17:10 |
| S27 | 3     | "6563655".pn.                                                                                                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/12/29 12:58 |

| S28 | 2    | "6493739".pn.                                                                                        | US-PGPUB;<br>USPAT;                                               | OR     | ON | 2005/12/29 13:00 |
|-----|------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|--------|----|------------------|
|     |      |                                                                                                      | USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                        |        |    |                  |
| S29 | 2    | "5819053".pn.                                                                                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR     | ON | 2005/12/29 13:04 |
| S30 | 28   | ((count monitor track) NEAR3 (idle)) SAME ("duty cycle" workload)                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR     | ON | 2005/12/29 17:13 |
| S31 | 34   | ((count monitor track) NEAR3 (idle inactiv\$3)) SAME ("duty cycle" workload)                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR     | ON | 2005/12/29 17:14 |
| S32 | 34   | ((count monitor track) NEAR3 (idle inactiv\$3 "not active")) SAME ("duty cycle" workload)            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR     | ON | 2005/12/29 17:18 |
| S33 | 3723 | ((count monitor track) NEAR3 (idle inactiv\$3 "not active"))                                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR     | ON | 2005/12/29 17:18 |
| S34 | 549  | ((count monitor track) NEAR3 (idle inactiv\$3 "not active")) SAME (delay halt rest stop)             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR . · | ON | 2005/12/29 17:19 |
| S35 | 34   | ((count monitor track) NEAR3 (idle inactiv\$3 "not active")) SAME (delay halt rest stop) SAME (disk) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR .   | ON | 2005/12/29 17:19 |

|     |       |                                                | <u></u>                                                           |    |     |                  |
|-----|-------|------------------------------------------------|-------------------------------------------------------------------|----|-----|------------------|
| S36 | 58685 | ("duty cycle")                                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/01/05 18:16 |
| S37 | 71    | ("duty cycle") WITH ("disk drive")             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/01/06 11:10 |
| S38 | 109   | ("duty cycle" workload) WITH ("disk<br>drive") | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/01/06 11:10 |
| S39 | 38    | (workload) WITH ("disk drive")                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/01/06 11:11 |